

Title (en)

Method for automatic calibration check of a measuring device

Title (de)

Verfahren zur automatischen Überprüfung der Kalibrierung einer Messvorrichtung

Title (fr)

Procédé de contrôle automatique d'étalonnage d'un appareil de mesure

Publication

**EP 0866318 B1 20030917 (EN)**

Application

**EP 97850044 A 19970321**

Priority

EP 97850044 A 19970321

Abstract (en)

[origin: EP0866318A1] The invention relates to a method for automatic calibration check of a measuring device in which particles to be measured are subjected to tangential acceleration in a whirling impeller (1), and the torque exerted on the vanes of the impeller (1) in reaction to the Coriolis force of accelerated particles is being measured as an indication of a mass flow rate, and wherein the flow (4) of material is fed to the central part of the impeller and thereafter by the centrifugal force thrown towards the circumference of the impeller (1) and the flow being measured by means of an electronic device (12, 14) including a microcomputer (12). When the flow (4) is absent or constant the rotational speed of the impeller is varied, the moment change thereof is measured and an integrated value of the kinetic energy is used to verify the operation of the instrument. <IMAGE>

IPC 1-7

**G01F 1/80**; **G01F 25/00**

IPC 8 full level

**G01F 1/80** (2006.01); **G01F 25/00** (2006.01)

CPC (source: EP US)

**G01F 1/80** (2013.01 - EP US); **G01F 1/8454** (2013.01 - EP US); **G01F 25/10** (2022.01 - EP US)

Cited by

DE19905951A1; US6705171B1; DE102011076838A1; WO2012163608A1

Designated contracting state (EPC)

DE ES FR GB IT NL SE

DOCDB simple family (publication)

**EP 0866318 A1 19980923**; **EP 0866318 B1 20030917**; DE 69724930 D1 20031023; DE 69724930 T2 20040729; US 6012323 A 20000111

DOCDB simple family (application)

**EP 97850044 A 19970321**; DE 69724930 T 19970321; US 4482298 A 19980320